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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/630,013	07/30/2003	Manabu Kai	FUSA 20.530	8513	
7590 03/09/2005		EXAMINER			
Katten Muchin Zavis Rosenman			LEE, BENNY T		
575 Madison Avenue New York, NY 10022-2585			ART UNIT	PAPER NUMBER	
			2817		
			DATE MAILED: 03/09/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.



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This application has been examined	Responsive to communica	tion filed on 21 Dec	2004 7	This action is made final
A shortened statutory period for response Fallure to respond within the period for re	to this paris a factor of 70	. (2)	•	the date of this letter.
Part I THE FOLLOWING ATTACHME	NT(S) ARE PART OF THIS ACTIO	ON:	. 00 0.0.0. 100	
Notice of References Cited by Notice of Art Cited by Applica Information on How to Effect I	nt, PTO-1449.	2. Notice r 4. Notice c 6	e Patent Drawing, Pi of Informal Patent Ap	FO-948. plication, Form PTO-152
Part II SUMMARY OF ACTION				
1. Claims	1-5,7-1	0, 12, 13		are pending in the application.
or the above, daims _	2-5, 8-	10, 12, 13	are	withdrawn from consideration.
			<u> </u>	have been cancelled
3. Claims				are allowed.
4. Claims	1,7			are rejected
5. Claims				are objected to.
6. Claims	1-10,	10,13 are	subject to restriction	or closting assuits
8. Formal drawings are save to	with informal drawings under 37 (F.R. 1.85 which are a	cceptable for examir	nation purposes.
Formal drawings are required in The corrected or substitute to				
	vings have been received on ceptable (see explanation or Notice	e re Patent Drawing, P	Under 3	7 C.F.R. 1.84 these drawings
10. The proposed additional or sub examiner; disapproved by the same of the s	stitute sheet(s) of drawings, filed one examiner (see explanation).	n 21 Dec 2004	has (have) been	approved by the
11. The proposed drawing correction	n, filed	ISS book 5		
12. Acknowledgement is made of the been filled in parent application	o claim for priority under U.S.C. 1 In, serial no.	19. The certified copy	has Deen receive	ee explanation). Id
13. Since this application appropries	o be in condition for allowance exter Ex parte Quayle, 1935 C.D. 11			
14. Other		, 403 O.G. 213.		(-,-,-
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EXAMINER'S ACTION

U.S.GPO:1990-259-282

PTOL-326 (Rev.9-89)

DETAILED ACTION

Claims 2-5; 8-10; 12; 13 remain withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the Paper filed 8 March 2004.

The substitute specification filed 21 December 2004 has been disapproved since applicants' have not provided a "marked-up" copy of the substitute specification for comparison purposes with the "clean copy" of the substitute specification. Clarification is required.

Accordingly, all the specification objections, as set forth below, remain in effect.

35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms, which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are:

At all occurrences, throughout the specification, note that "owing" should be rewritten as --due-- (e.g. p. 6, 1. 24; p. 13, ls 41, 44, p. 14, ls 26, 31, p. 15, l. 2, p. 16, l. 45). At all occurrences, note that "pass characteristic" should be rephrased as --pass band characteristic--. Page 16, lines 20, 22, note that -- % -- should follow "10" and "90" respectively. Page 17, line 42, note that --:-- should follow "51".

The disclosure is objected to because of the following informalities: Page 1, line 33, note that it is unclear which "characteristics" are "stabilize". Page 2, lines 5, 15, note that --19--should precede "(B)" and "(A)", respectively; lines 6, 8, note that --[see fig. 19(A)]-- should follow "1(B)" and "1(C)", respectively for clarity of description; line 16 note that --[see fig. 19

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(B)]-- should follow "1(H)" for clarity; line 31, note that --21-- should precede "(B)". Pages 6, 7, note that the brief description of figures (2, 3, 9, 10, 14, 19, 21) should be respectively rewritten to include the drawing labeling as provided in the drawing figures (e.g. "Fig. 3" should be --Figs. 3(a) 3(b), 3(c) --, etc). Page 8, line 33, note that --(BPF)-- should follow "filter" for consistency of description. Page 10, line 10, note that --as shown in Fig. 1-- should follow "ALM" for clarity of description. Page 11, line 27, note that --t₁, t₂, t₃, t₄-- should follow "intervals" for clarity of description. Page 12, lines 22, 23, note that "loss from a head of the low noise amplifier 12" is vague in meaning and needs clarification; line 37, note that "latter" should be rephrased as -- receive antenna 32-- for clarity of description. Page 13, line 12, note that it is unclear whether "in reverse from the antenna" is a correct characterization. Page 16, lines 1, 6, 40 and page 17, lines 2, 5, 8, should "pilot signal amplifier" correctly be --pilot signal detector-- at each occurrence? Page 16, line 30, note that --as shown in fig. 14(A)-- should follow "12" for clarity of description; line 38, note that "ratio of 5:5" is vague in meaning and needs clarification.

Appropriate correction is required.

The disclosure is objected to because of the following informalities: Note that in the description of the following drawing figures, the cited reference labels need explicit description therewith: Figs. 3(B), 3(C), all labels therein; fig. 9(A) 9(B) 9(C), 9(D), "T=To" and S21; fig. 9(A), "T=T₂" and "T=T₁"; Fig. 9(b), "f_{c1}" and "f_{c2}"; Fig. 10 (Sf_{c1}, Sf_{c2}); figs. 12, 14(B), 16, all reference labels therein; Fig. 13, [S21 (T=300K)]; Fig. 19(b) "1e". Appropriate correction is required.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, each of the pilot signals being

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inputted into the filter, as recited in claims 1 & 7 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

The specification lacks a description of both the pilot signals being inputted into the filter, as presently recited in amended claims 1 & 7.

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Claims 1, 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1, 7, note that the amended limitation that each of the "two pilot signals" is being inputted into "said superconducting filter" does not appear consistent with what is disclosed by the specification. Note that as depicted in figs. 11 & 15, which correspond to the embodiments recited in claims 1 & 7, only one of the received or pilot signals is inputted into the superconducting filter (11) while the other pilot signal is inputted into the low noise amplifier (12) in contradistinction to what has been recited in claims 1 & 7. Accordingly, clarification of the above ground of rejection is required by: either providing support in the disclosure for the amended limitations in claims 1 & 7 or amending claims 1 & 7 to properly characterize what has been disclosed in the original specification and drawings.

Claims 1, 7 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benny Lee whose telephone number is 571 272 1764

B. Lee

BENNY T. LÉE Primary examiner Art unit 2817